

GenoPro version 5.1³
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CM protein - protein search, using sw motif:

Run on: January 16, 2003, 16:34:37 ; search time 247857 seconds
(without alignments)
28.011 million cell updates/SEC

Title: US-09-856-070-26

Perfect score: 28

Sequence: 1 QDYEEL 5

Scoring table: BioPEP2

Gapop 10.0 , Gapext 0.5

Searched: 308470 entries, 13257620 residues

Total number of hits satisfying chosen parameters: 938470

Minimum DB seq length: 0

Maximum DB seq length: 20000000

Post-processing: Maximum Match 100%

Maximum Match 45 summaries

Listing first 45 summaries

Database: A_Geneset_101002 *

- 1: /SIDS2/seqdata/geneset/geneset/geneset/emb1/AA1480.DAT:*
- 2: /SIDS2/seqdata/geneset/geneset/geneset/emb1/AA1481.DAT:*
- 3: /SIDS2/seqdata/geneset/geneset/geneset/emb1/AA1482.DAT:*
- 4: /SIDS2/seqdata/geneset/geneset/geneset/emb1/AA1483.DAT:*
- 5: /SIDS2/seqdata/geneset/geneset/geneset/emb1/AA1484.DAT:*
- 6: /SIDS2/seqdata/geneset/geneset/geneset/emb1/AA1485.DAT:*
- 7: /SIDS2/seqdata/geneset/geneset/geneset/emb1/AA1486.DAT:*
- 8: /SIDS2/seqdata/geneset/geneset/geneset/emb1/AA1487.DAT:*
- 9: /SIDS2/seqdata/geneset/geneset/geneset/emb1/AA1488.DAT:*
- 10: /SIDS2/seqdata/geneset/geneset/geneset/emb1/AA1489.DAT:*
- 11: /SIDS2/seqdata/geneset/geneset/geneset/emb1/AA1490.DAT:*
- 12: /SIDS2/seqdata/geneset/geneset/geneset/emb1/AA1491.DAT:*
- 13: /SIDS2/seqdata/geneset/geneset/geneset/emb1/AA1492.DAT:*
- 14: /SIDS2/seqdata/geneset/geneset/geneset/emb1/AA1493.DAT:*
- 15: /SIDS2/seqdata/geneset/geneset/geneset/emb1/AA1494.DAT:*
- 16: /SIDS2/seqdata/geneset/geneset/geneset/emb1/AA1495.DAT:*
- 17: /SIDS2/seqdata/geneset/geneset/geneset/emb1/AA1496.DAT:*
- 18: /SIDS2/seqdata/geneset/geneset/geneset/emb1/AA1497.DAT:*
- 19: /SIDS2/seqdata/geneset/geneset/geneset/emb1/AA1498.DAT:*
- 20: /SIDS2/seqdata/geneset/geneset/geneset/emb1/AA1499.DAT:*
- 21: /SIDS2/seqdata/geneset/geneset/geneset/emb1/AA2000.DAT:*
- 22: /SIDS2/seqdata/geneset/geneset/geneset/emb1/AA2001.DAT:*
- 23: /SIDS2/seqdata/geneset/geneset/geneset/emb1/AA2002.DAT:*

SUMMARYS

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No. Score Query Match Length DB ID Description

1 28 100.0 28 AA0224 Human hepatocyte

2 28 100.0 11 AA08039 Human hepatocyte

3 28 100.0 12 AA08038 Human hepatocyte

4 28 100.0 13 AA08037 Human hepatocyte

5 28 100.0 27 AAY2244 Antennapedia inter

6 28 100.0 34 AA08036 Human bone marrow

7 28 100.0 37 AAM7227 Human hepatocyte

8 28 100.0 52 AAU31064 Novel human secret

9 28 100.0 137 AAW6697 Streptococcus pneu

10 28 100.0 159 AAN25294 Human PRO polypept.

OS XX Key

FT FT Modified-site

FT FT

XX XX

OS XX

FH XX

PA PA

XX XX

XX XX

PN XX

GB2354241-A

PN XX

XX Novel regulatory or untolding peptides of ezrin that binds to domain A of the
 PT hepreceptor, useful for inducing immune response for treating
 PI infectious diseases and cancer.
 XX

PS claim 29; Page 37; 42pp; English.

XX The hepreceptor is a novel active site in human ezrin. Ezrin regulates
 CC the structure of the cortical cytoskeleton to control cell surface
 CC topography. The present invention relates to peptides (see AAB82031 to
 CC AAB82041) that bind to hepreceptor with greater affinity than HEP1 (see
 CC AAB82046). The hepreceptor binding peptides are useful for inducing
 CC immune response and for treating infectious diseases, cancer and
 CC HIV-related dementia. The present peptide binds to domain A of the
 CC hepreceptor (AAB82019).

XX Sequence 5 AA;

PS Sequence 11 AA;

XX Sequence 11 AA;

Query Match 100.0%; Score 28; DB 22; Length 11;
 Best Local Similarity 100.0%; Pred. No. 24;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QDYE 5
 DB 7 QDYE 11

RESULT 3

! AAB82038

! ID AAB82038 standard; peptide; 12 AA.

XX

AC AAB82038;

XX 13-JUN-2001 (first entry)

PT Human hepreceptor domain A binding peptide Rupe2142.

XX

KW Human; hepreceptor; cytostatic; anti-HIV; antibiotic;
 KW nocotropic; immune response inducer; ezrin; infectious diseases; cancer;
 KW HIV-related dementia.

XX

XX Homo sapiens.

XX Location/Qualifiers

XX 10 "optionally phosphorylated"

XX

FT Key Modified-site 10

FT FI

XX

DI 13-JUN-2001 (first entry)

XX

DE Human hepreceptor domain A binding peptide Rupe2232.

XX

KW Human; hepreceptor; cytostatic; anti-HIV; antibiotic;
 KW nocotropic; immune response inducer; *ezrin*; infectious diseases; cancer;

XX

KW HIV-related dementia.

XX

GS Homo sapiens.

XX

FT Key Modified-site 9

FT FI

XX

FT /note- "optionally phosphorylated"

PN GB2354241-A.

XX

PT 21-MAR-2001.

XX

PF 17-SEP-1999; 99GB-0021881.

XX

PR 17-SEP-1999; 99GB-0021881.

PA (HOLM/) HOLMS R D.

PT HOLMS R D.

XX

PS 2901-293287/31.

XX

PT Novel regulatory or untolding peptides of ezrin that binds to
 PT hepreceptor, useful for inducing immune response for treating
 PT infectious diseases and cancer.

XX

PS Claim 24; Page 36; 42pp; English.

XX

CC The hepreceptor is a novel active site in human ezrin. Ezrin regulates
 CC the structure of the cortical cytoskeleton to control cell surface
 CC topography. The present invention relates to peptides (see AAB82021 to
 CC AAB82041) that bind to hepreceptor with greater affinity than HEP1 (see
 CC AAB82046). The hepreceptor binding peptides are useful for inducing
 CC immune response, and for treating infectious diseases, cancer and
 CC HIV-related dementia. The present peptide binds to domain A of the
 CC hepreceptor (AAB82019).

XX Sequence 12 AA;

PS Sequence 28; DB 22; Length 12;

Best Local Similarity 100.0%; Pred. No. 26;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QDYE 5
 DB 8 QDYE 12

sequences of novel human secreted proteins of the invention

RESULT 9
W62697 AAW62697 standard; protein: 137 AA.
AAW62697;

09-NOV-1998 (first entry)
Streptococcus pneumoniae F-1998 (pt 3b)

Polypeptide, OFF, open reading frame; infection; bacterial; streptococcal; bacteremia; diaetous; diaetous; prophyaxis; streptococcus; pneumococci.

WO9823631 A1
04-11N-1998

24 - NOV - 1997; 97WO-US21976.

27 - NOV - 1996; 96US0031879.

(SMIK) SMITHKLINE BEECHAM CORP.

(SMIK) SMITHKLINE BEECHAM PLC.

BLACK MT, Hodgeson JE, Kowalski MJ, Loeffelholz MA, Vittorino
Roid MH, Zaroff PN;

WPI: 1998-32265A/28

Streptococcus pneumoniae Polypeptides - useful for development of products for diagnosis, prevention and treatment of infection, pneumonia, bacteremia, meningitis or endocarditis claim 5; Page 32; 181PP; English

The sequence is that of a Streptococcal Polypeptide. The Polypeptide can potentially be used for the diagnosis and prevention of bacterial infections, especially *Streptococcal* infection. It may be used for the treatment of diseases such as otitis conjunctivitis, pneumonia, bacteremia, meningitis, sinusitis, sepsis, endocarditis or infection of the cerebrospinal fluid.

the pro polypeptides and their associated nucleic acids can be used to detect the presence of a tumour in a mammal by comparing the level of expression of a pro polypeptide in a test sample of cells from the animal and a control sample of normal cells, whereby a higher level of expression in the test sample indicates the presence of a tumour in the mammal. Mammals include dogs, cats, cattle, horses, sheep, pigs, goats and rabbits but are preferably human. The polypeptides can be used to stimulate tumour necrosis factor (TNF) alpha release from human blood when contacted with it. A specific polypeptide can be used to stimulate the proliferation or differentiation of chondrocyte cells. The FGF proteins can be used to determine the presence of tumours and also susceptibility to tumour development, particularly adrenal, lung, colon, breast, prostate, rectal, cervical, or liver tumours, in mammalian subjects. The oligonucleotide probes specific for the pro nucleic acids can be used for genetic analysis of individuals with genetic disorders.

Sequence 159 AA:

Query Match 100.0%; Score 28; DB 22; length 159;
Best Local Similarity 100.0%; Pred. No. 3; i.e. 0;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX

that contains an inhibitor of thrombin, the protein prevents coagulation of blood by inhibiting the activity of thrombin (factor II). It comprises a sequence of aspartic acid and glutamic acid residues. This sequence has thrombolytic activity. Thrombostatin sequences are used as veterinary vaccines for treating haemophagia (blood-feeding) in cattle and propylaxis of thrombosis in mammals. It is useful for therapy and prophylaxis of thrombosis and thrombostasis in humans, including prophylaxis of post-operative thrombosis, acute shock therapy, therapy for consumption of coagulopathies, haemodialysis, homoparaffin and extracorporeal blood circulation. It can also be used as an anticoagulant in blood.

Sequence 168 AA:

Query Match 100.0%; Score 28; DB 21; length 168;
Best Local Similarity 100.0%; Pred. No. 3; i.e. 0;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX

CC mammals. It is useful for therapy and prophylaxis of thrombosis and
 CC thromboembolisms in humans, including prophylaxis of post-operative
 CC thrombosis, acute shock therapy, therapy for consumption of
 CC coagulopathics, in haemodialysis, haemostoparations and extracorporeal
 CC blood circulation. It can also be used as an anticoagulant in blood.

XX Sequence 175 AA;

Query Match 100.0%; Score 28; DB 21; length 175;
 Best Local Similarity 100.0%; Proj. No. 3 4*6*;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QDYEE 5
 DB 83 QDYEE 87

RESULT 13

AAB93862 standard; Protein: 252 AA.
 XX

AC AAB93862;

XX DT 26-JUN-2001 (first entry)

XX DE Human protein sequence SEQ ID NO:13733.

XX Human; primer; detection; diagnosis; antisense therapy; gene therapy.

XX OS Homo sapiens.

XX PN EP1074617-A2.

XX PD 07-FEB-2001.

XX PF 28-JUL-2000; 20000EP-0116126.

XX PR 29-JUL-1999; 99JJP-0248036.

XX PR 11-AUG-1999; 99JJP-030055.

XX PR 11-JAN-2000; 2000JJP-0118776.

XX PR 02-MAY-2000; 2000JJP-0183767.

XX PR 09-JUN-2000; 2000JJP-0241899.

XX PA (HELI-) HELIX RES INST.

XX PI Ota, T., Isogai, T., Nishikawa, T., Hayashi, K., Saito, K., Yamamoto, J.;

PI Ishii, S., Sugiyama, T., Wakamatsu, A., Nagai, K., Otsuki, T.;

DR WPI: 2001-318749/34.

XX primer sets for synthesizing polynucleotides, particularly the 5602 full-length cDNAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs -
 XX Claim 8; SEQ ID 13733; 2537pp + cd ROM; English.
 XX The present invention describes primer sets for synthesising 5602 full-length cDNAs defined in the specification. Which a primer set comprises: (a) an oligonucleotide comprising a sequence complementary to the complementary strand of a polynucleotide which comprises one of the 5602 nucleotide sequences defined in the specification, where the oligonucleotide comprises at least 15 nucleotides, or (b) a combination of an oligonucleotide comprising a sequence complementary to the complementary strand of a polynucleotide which comprises a 5'-end sequence and an oligonucleotide comprising a 3'-end sequence, where the oligonucleotide comprises a 3'-end sequence, where the 5'-end sequence is selected from those defined in the specification. The primer sets can be used in antisense therapy and gene therapy. The primers are useful for synthesising polynucleotides, particularly full-length cDNAs. The primers are also useful for the detection and/or diagnosis of the abnormality of the proteins encoded by

CC the full-length cDNAs. The primers allow obtaining of the full-length CC cDNAs easily without any specialised methods. AAB93862 to AAB13633 and AAB13633 to AAH18742 represent human cDNA sequences; AAB9244b to AAB9244b represent human amino acid sequences, and AAH13622 to AAH13622 represent oligonucleotides, all of which are used in the exemplification CC of the present invention.

XX SQ sequence 252 AA;

Query Match 100.0%; Score 28; DB 22; length 252;
 Best Local Similarity 100.0%; Proj. No. 4 9e+02;
 Matches 5; conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QDYEE 5
 DB 230 QDYEE 234

RESULT 14

AAB94845

XX ID AAB94845 standard; Protein: 252 AA.

XX AC AAB94845;

XX DT 26-JUN-2001 (first entry)

XX DE Human protein sequence SEQ ID NO:16022.

XX Human; primer; detection; diagnosis; antisense therapy; gene therapy.

XX KW Homo sapiens.

XX OS Homo sapiens.

XX PN EP1074617-A2.

XX PD 07-FEB-2001.

XX PF 28-JUL-2000; 20000EP-0116126.

XX PR 27-JUL-1999; 99JJP-0248036.

XX PR 11-AUG-1999; 99JJP-030055.

XX PR 11-JAN-2000; 2000JJP-0118776.

XX PR 02-MAY-2000; 2000JJP-0183767.

XX PR 09-JUN-2000; 2000JJP-0241899.

XX PA (HELI-) HELIX RES INST.

XX PI Ota, T., Isogai, T., Nishikawa, T., Hayashi, K., Saito, K., Yamamoto, J.;

PI Ishii, S., Sugiyama, T., Wakamatsu, A., Nagai, K., Otsuki, T.;

DR WPI: 2001-318749/34.

XX primer sets for synthesizing polynucleotides, particularly the 5602 full-length cDNAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs -
 XX Claim 8; SEQ ID 13733; 2537pp + cd ROM; English.

XX The present invention describes primer sets for synthesising 5602 full-length cDNAs defined in the specification. Which a primer set comprises: (a) an oligonucleotide comprising a sequence complementary to the complementary strand of a polynucleotide which comprises one of the 5602 nucleotide sequences defined in the specification, where the oligonucleotide comprises at least 15 nucleotides, or (b) a combination of an oligonucleotide comprising a sequence complementary to the complementary strand of a polynucleotide which comprises a 5'-end sequence and an oligonucleotide comprising a 3'-end sequence, where the oligonucleotide comprises a 3'-end sequence, where the 5'-end sequence is selected from those defined in the specification. The primer sets can be used in antisense therapy and gene therapy. The primers are useful for synthesising polynucleotides, particularly full-length cDNAs. The primers are also useful for the detection and/or diagnosis of the abnormality of the proteins encoded by

XX (HELI-) HELIX RES INST.

XX The present invention describes primer sets for synthesising 5602 full-length cDNAs defined in the specification. Where a primer set comprises: (a) an oligonucleotide comprising a sequence complementary to the complementary strand of a polynucleotide which comprises one of the 5602 nucleotide sequences defined in the specification, where the oligonucleotide comprises at least 15 nucleotides and the combination of the 5'-end sequence and the 3'-end sequence, where the 5'-end sequence is selected from those defined in the specification. The primer sets can be used in antisense therapy and gene therapy. The primers are useful for synthesising polynucleotides, particularly full-length cDNAs. The primers are also useful for the

XX detection and/or diagnosis of the abnormality of the proteins encoded by

XX (HELI-) HELIX RES INST.

XX The present invention describes primer sets for synthesising 5602 full-length cDNAs defined in the specification. Where a primer set comprises: (a) an oligonucleotide comprising a sequence complementary to the complementary strand of a polynucleotide which comprises one of the 5602 nucleotide sequences defined in the specification, where the oligonucleotide comprises at least 15 nucleotides and the combination of the 5'-end sequence and the 3'-end sequence, where the 5'-end sequence is selected from those defined in the specification. The primer sets can be used in antisense therapy and gene therapy. The primers are useful for synthesising polynucleotides, particularly full-length cDNAs. The primers are also useful for the

XX detection and/or diagnosis of the abnormality of the proteins encoded by

XX (HELI-) HELIX RES INST.

XX The present invention describes primer sets for synthesising 5602 full-length cDNAs defined in the specification. Which a primer set

CC comprises: (a) an oligonucleotide comprising a sequence complementary to the complementary strand of a polynucleotide which comprises one of the 5602 nucleotide sequences defined in the specification, where the oligonucleotide comprises at least 15 nucleotides and the combination of the 5'-end sequence and the 3'-end sequence, where the 5'-end sequence is selected from those defined in the specification. The primer sets can be used in antisense therapy and gene therapy. The primers are useful for synthesising polynucleotides, particularly full-length cDNAs. The primers are also useful for the

CC detection and/or diagnosis of the abnormalities of the proteins encoded by
 CC the full length cDNAs. The primers allow obtaining of the full-length
 CC cDNAs easily without any specialised methods. AAI1366, AAI13672 and
 CC AAI13633 to AAI13742 represent human cDNA sequences, AAB92446 to
 CC AAB9593 represent human amino acid sequences; and AAI13629 to AAI13632
 CC represent oligonucleotides, all of which are used in the exemplification
 CC of the present invention.

XX Sequence 252 AA:

query Match 100.0%; Score 28; DB 22; Length 252;

Best Local Similarity 100.0%; Pred. No. 4.9e+02;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 QDYEE 5

Db 240 QDYEE 234

RESULT 15
 AAI17263 ID AAI17263 standard; Protein: 313 AA.

XX
 AC: AAI17263;

XX 18-FEB-2002 (first entry)

XX DE Novel human diagnostic protein #17254.

XX Human; chromosome mapping; gene mapping; gene therapy; forensic;

XX food supplement; medical imaging; diagnostic; genetic disorder.

XX Homo sapiens.

XX WO200175067-A2.

XX
 PN WO200175067-A2.

XX
 PR 11-OCT-2001.

XX
 PP 30-MAR-2001; 2001WO-US08631.

XX
 PR 31-MAR-2000; 2000US-0540217.

XX
 PR 23-AUG-2000; 2000US-0649167.

XX
 PA (HYSE-) HYSEQ Inc.

XX PI Dermana RT, Liu C, Tang YT;

XX WPI: 2001-619362/73.

XX
 DK N-PSDB; AAS81450.

XX
 PT New isolated polynucleotide and encoded polypeptides, useful in
 PT diagnostics, forensics, gene mapping, identification of mutations
 PT responsible for genetic disorders or other traits and to assess
 PT biodiversity.

XX
 PS Claim 20; SHQ 10 No 47622; 103pp; English.

CC The invention relates to isolated polynucleotide (I) and
 CC polypeptide (II) sequences, (I) is useful as hybridisation probes,
 CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
 CC and gene mapping and in recombinant production of (II). The
 CC polynucleotides are also used in diagnostics as expressed sequence tags
 CC for identifying expressed genes. (I) is useful in gene therapy techniques
 CC to restore normal activity of (II) or to treat disease states involving
 CC (II). (II) is useful for generating antibodies against it, detecting or
 CC quantitating a polypeptide in tissue, as molecular weight markers and as
 CC a food supplement. (II) and its binding partners are useful in medical
 CC imaging of sites expressing (II). (I) and (II) are useful for treating
 CC disorders involving aberrant protein expression or biological activity.
 CC The polynucleotide and polypeptide sequences have applications in
 CC diagnostics, forensics, gene mapping, identification of mutations
 CC responsible for genetic disorders or other traits to assess biodiversity
 CC and to produce other types of data and products dependent on DNA and

CC amino acid sequences. AAS8016 ABG3037 represent novel human
 CC diagnostic amino acid sequences of the invention.
 CC Note: The sequence data for this patent did not appear in the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pdb/published_pct_sequences

XX Sequence 313 AA;

query Match 100.0%; Score 28; DB 22; Length 313;

Best Local Similarity 100.0%; Pred. No. 6e+02;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 QDYEE 5

Db 220 QDYEE 224

Search completed: January 16, 2003, 16:49:17
 Job time: 24.7857 sec

Query Match 100.0%; Score 28; DB 22; Length 313;

Best Local Similarity 100.0%; Pred. No. 6e+02;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 QDYEE 5

Db 220 QDYEE 224